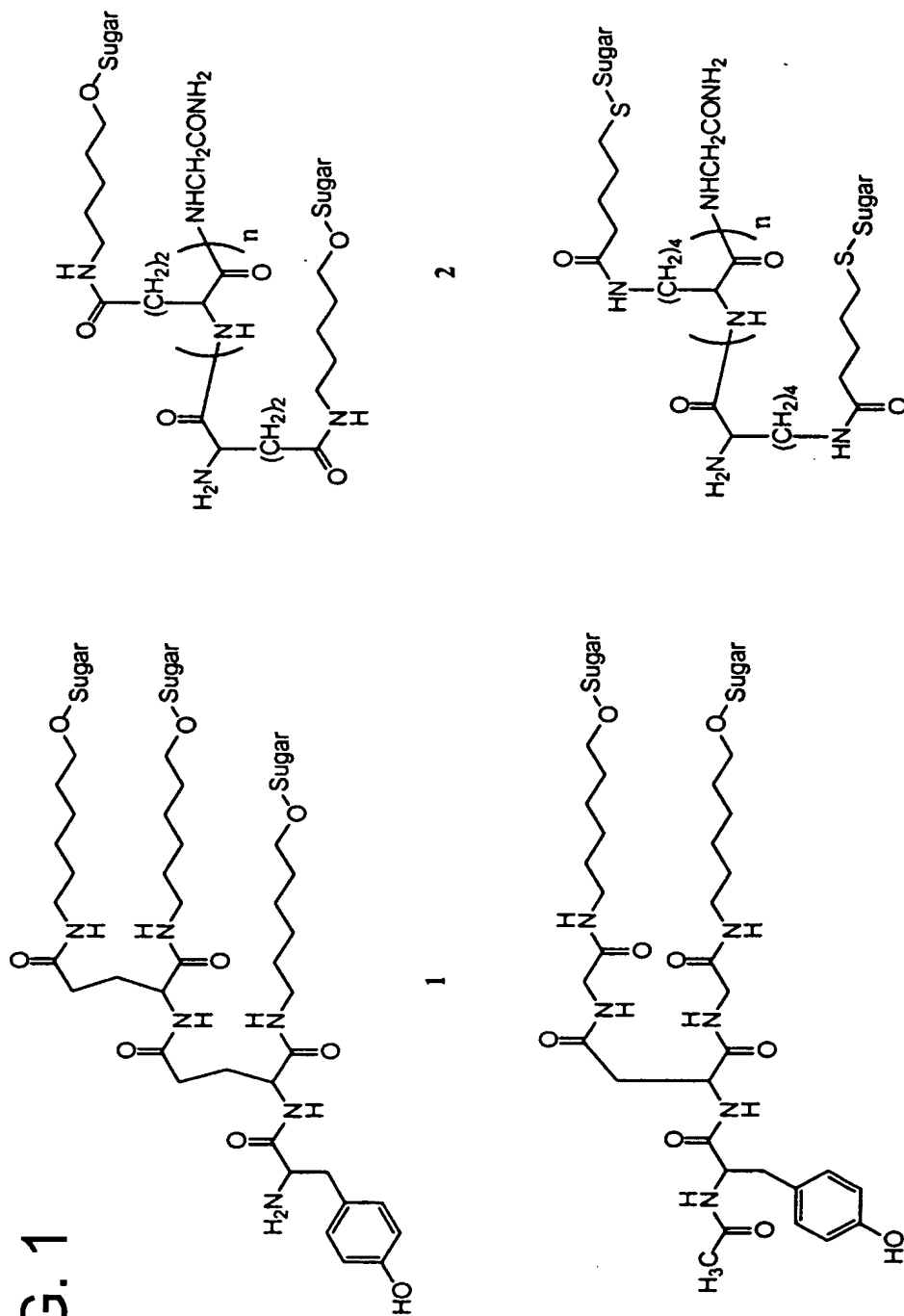


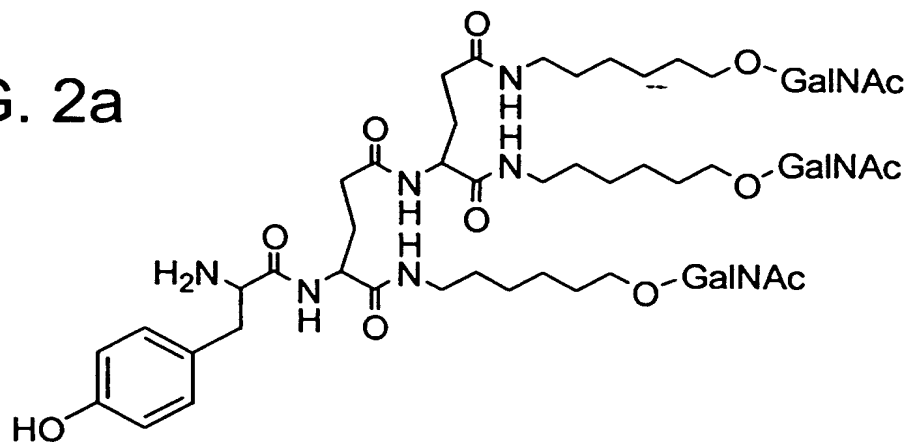
FIG. 1



<sup>a</sup> sugar may be, but is not restricted to, any of the following sugars: glucose, N-acetylglucosamine, galactose, N-acetylglucosamine, mannose, fucose.

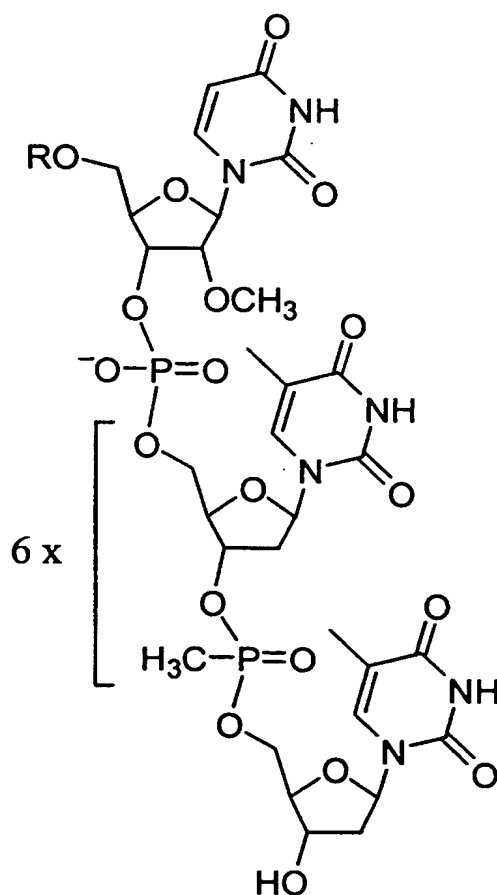
<sup>b</sup> Folic acid may be used in place of the sugar residues

FIG. 2a



5

FIG. 2b

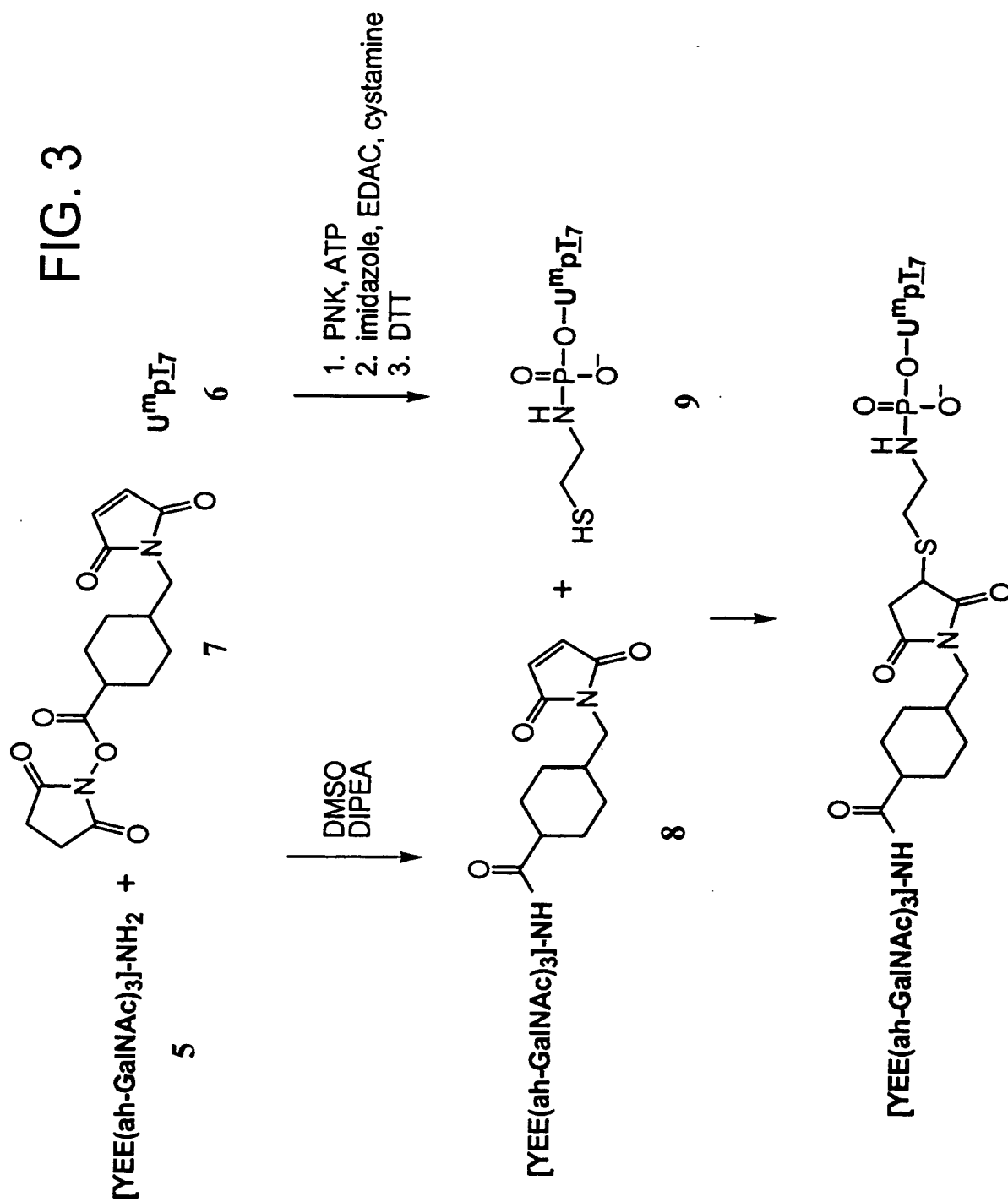


6a R = H

6b R =  $\text{--}\overset{\text{O}}{\underset{\text{O}^-}{\text{P}}}\text{--}\overset{\text{H}}{\text{N}}\text{--}\text{CH}_2\text{CH}_2\text{NH}_3^+$







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FIG. 4

1            2            3            4

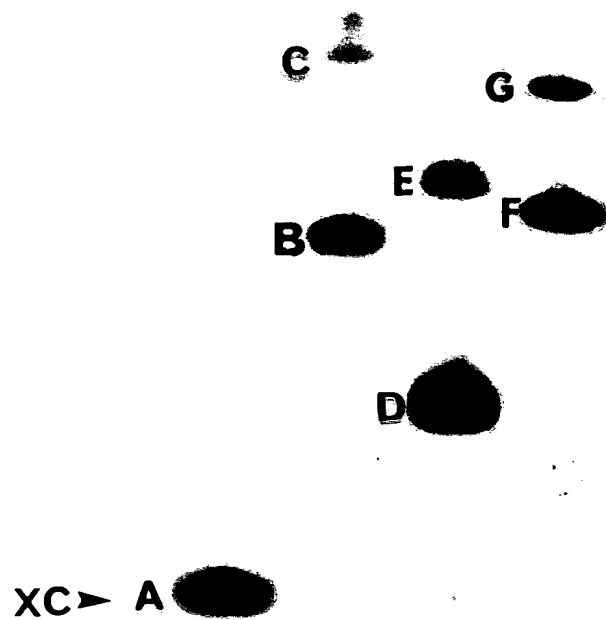




FIG. 6

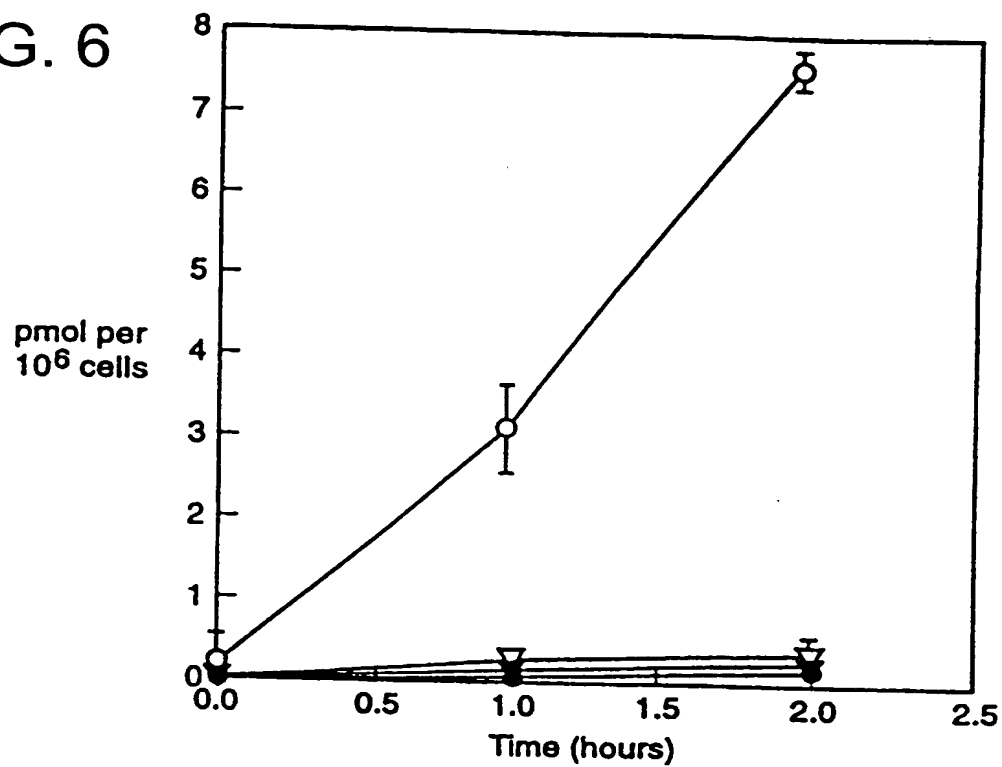


FIG. 7

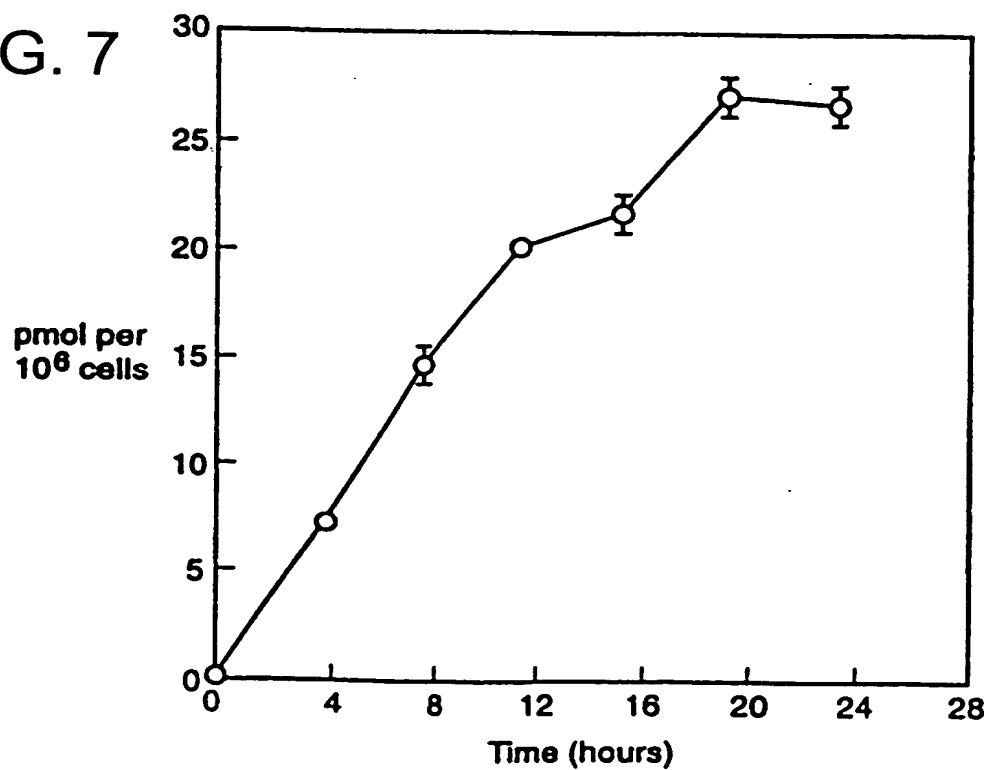
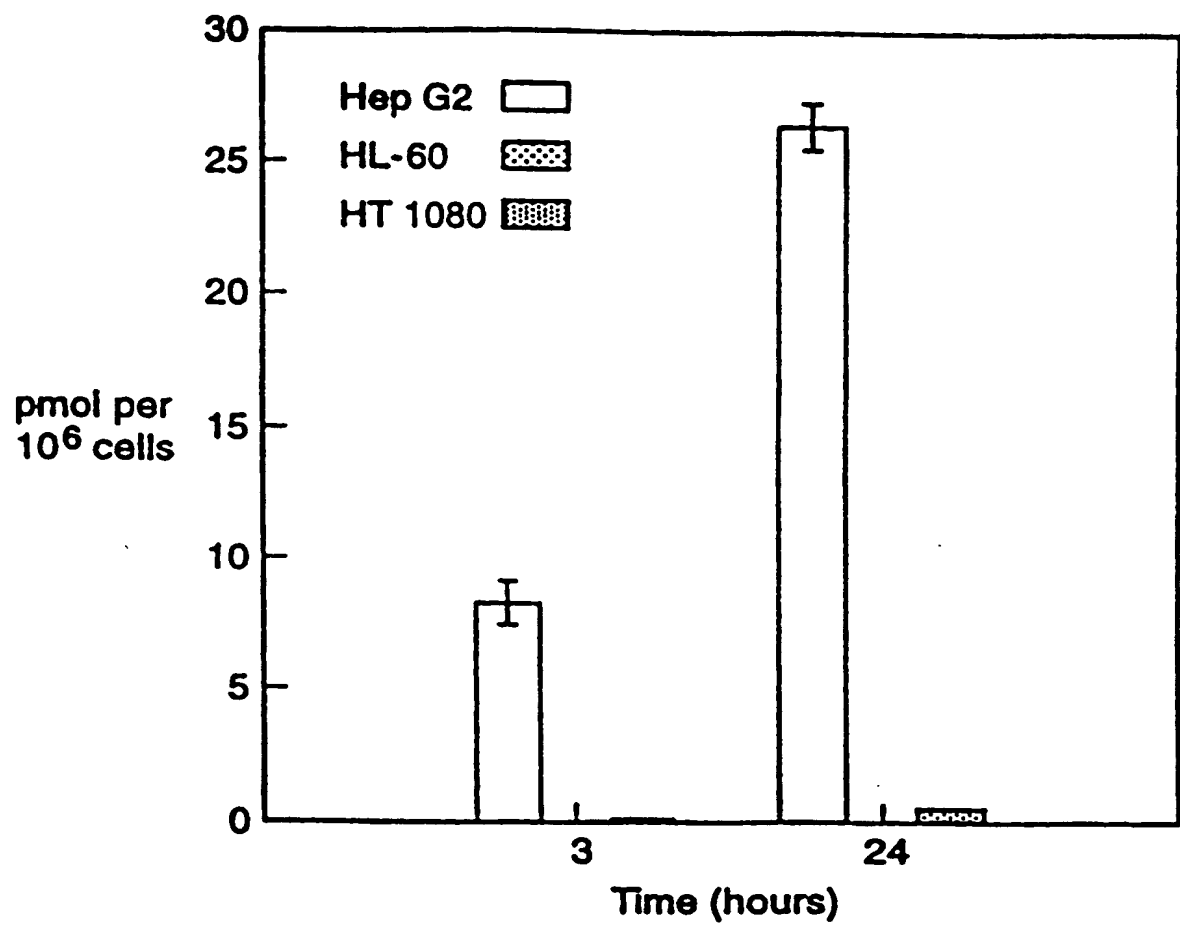




FIG. 8



# NUCLEASE RESISTANT NEOGLYCOCONJUGATE UPTAKE BY HEP G2 CELLS

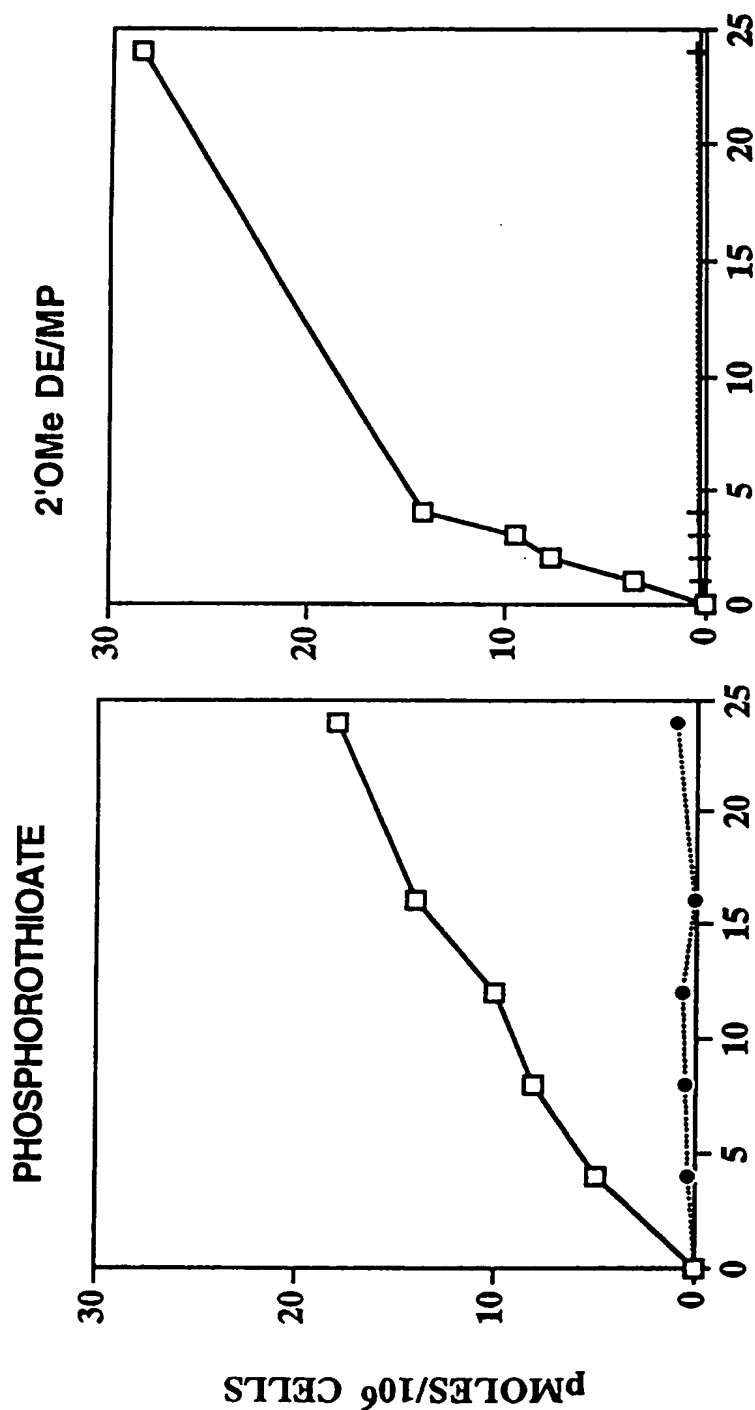


FIG. 9a

FIG. 9b

—□— NEOGLYCOCONJUGATE  
 .....+..... OLIGOMER

**FIG. 10**  
**NUCLEASE RESISTANT NEOGLYCONJUGATE UPTAKE**  
**BY HEP G2 2.2.15 CELLS**

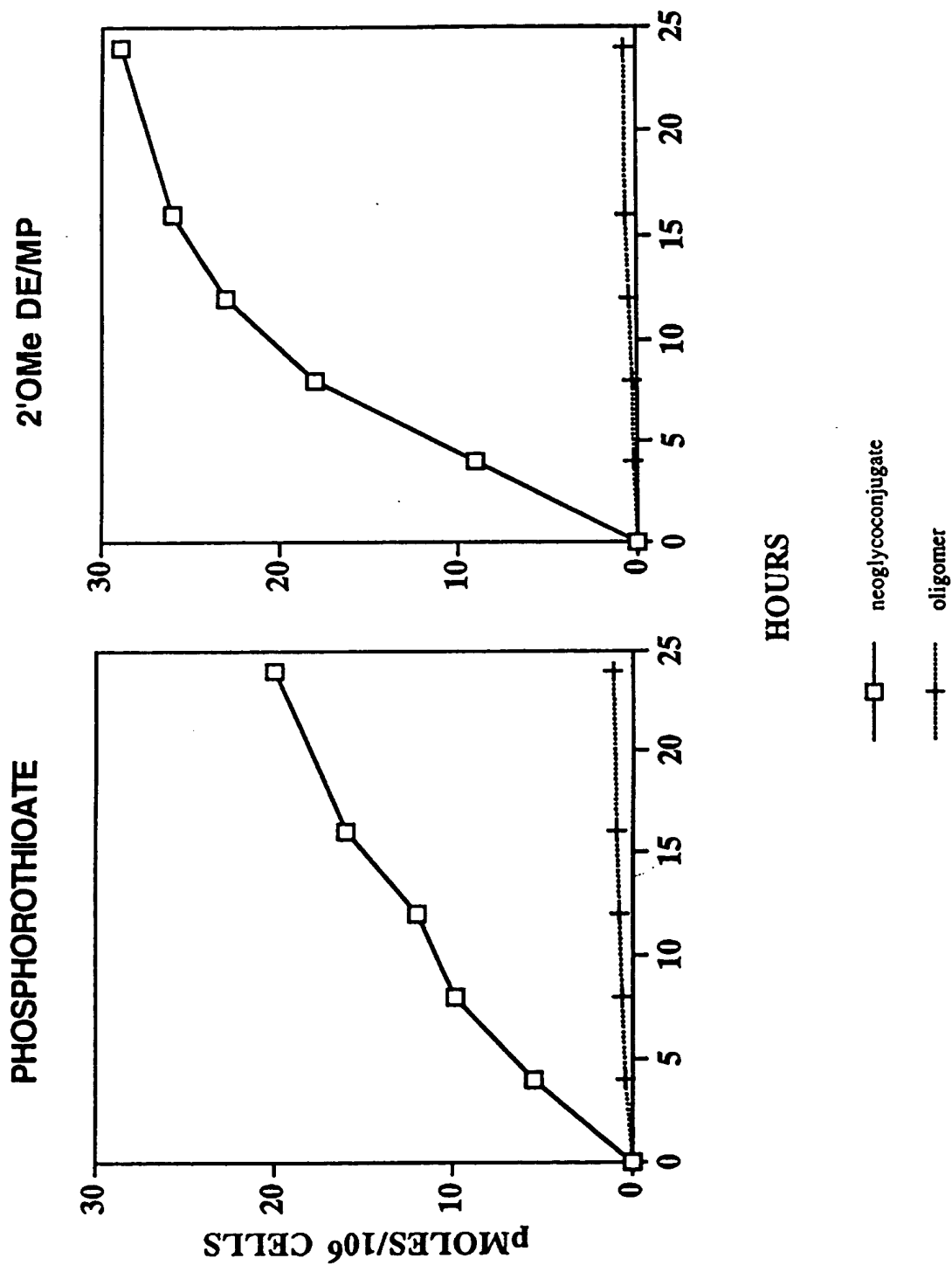


FIG. 11

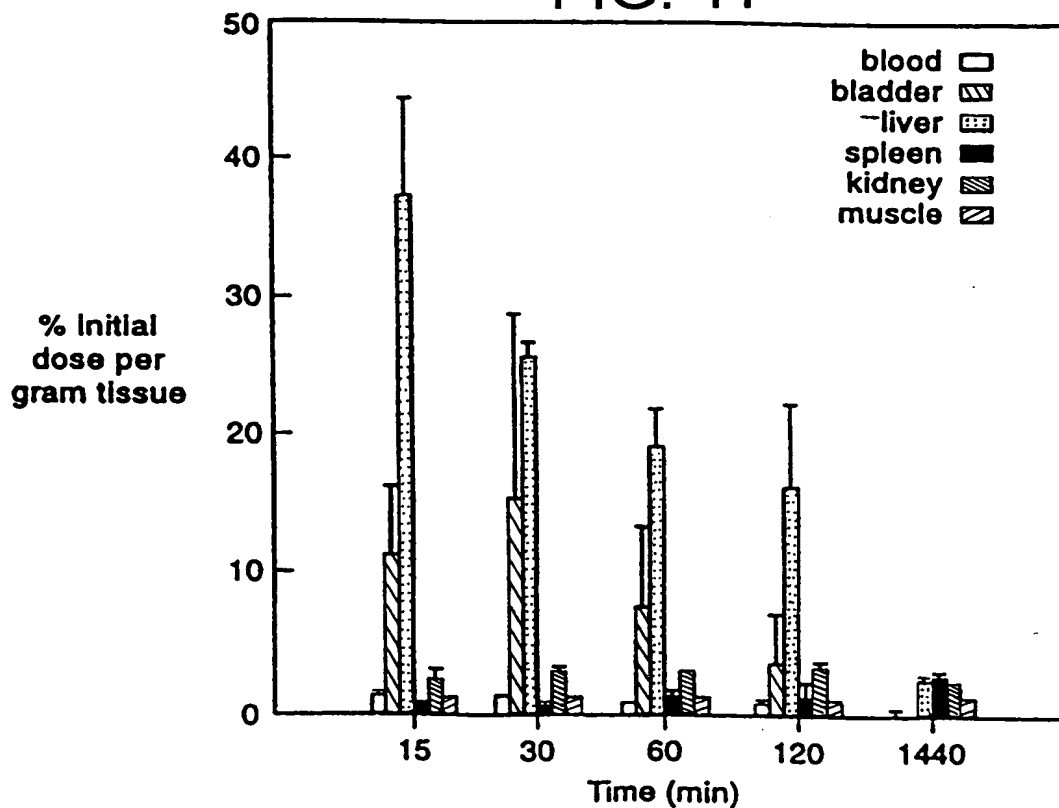
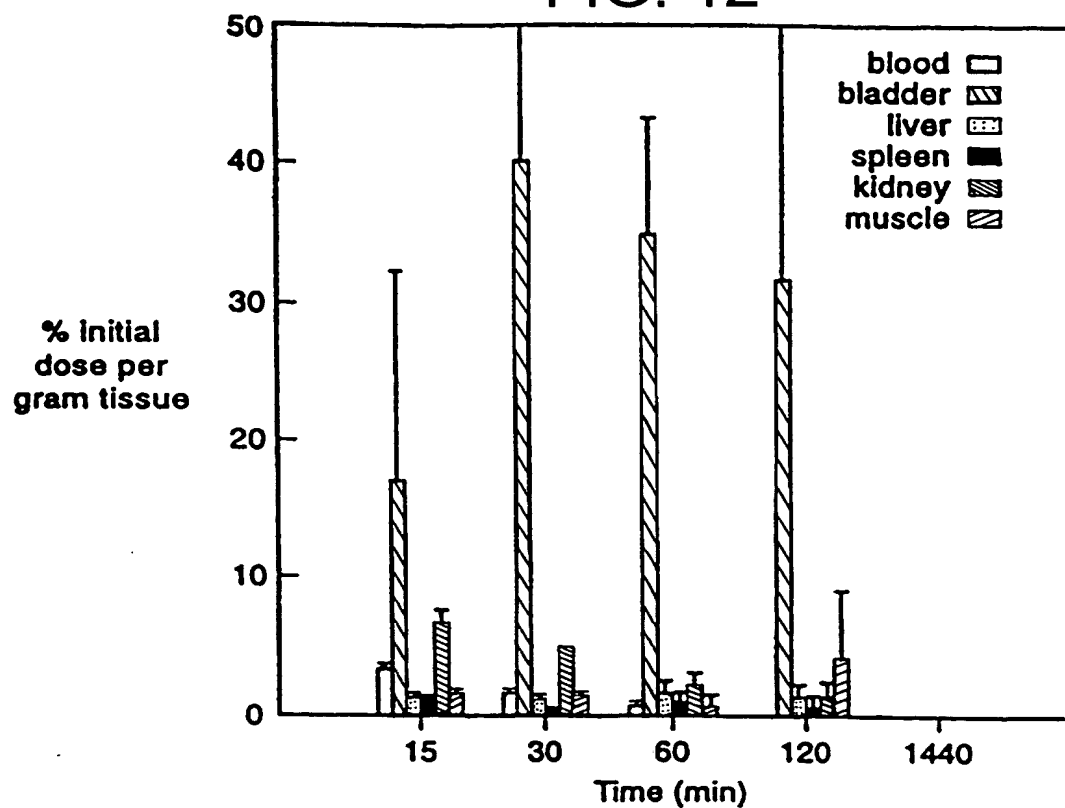


FIG. 12



# Tissue Distribution in Mice of {S-35}-Labeled Antisense Phosphorothioate Oligomer Against HBV

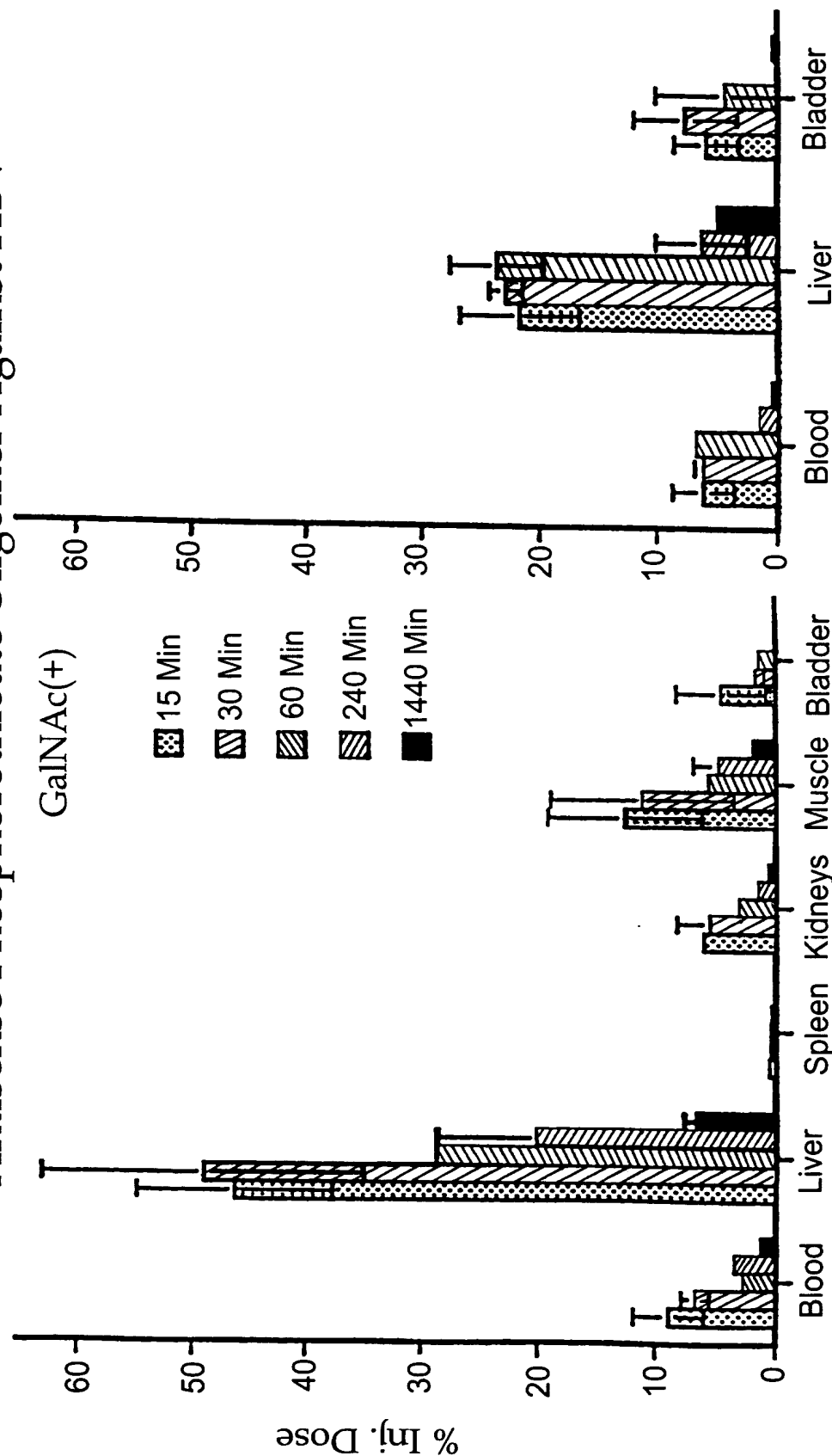


FIG. 13a

FIG. 13b




8



FIG. 15

1 2 3 4 5 6 7 8 9

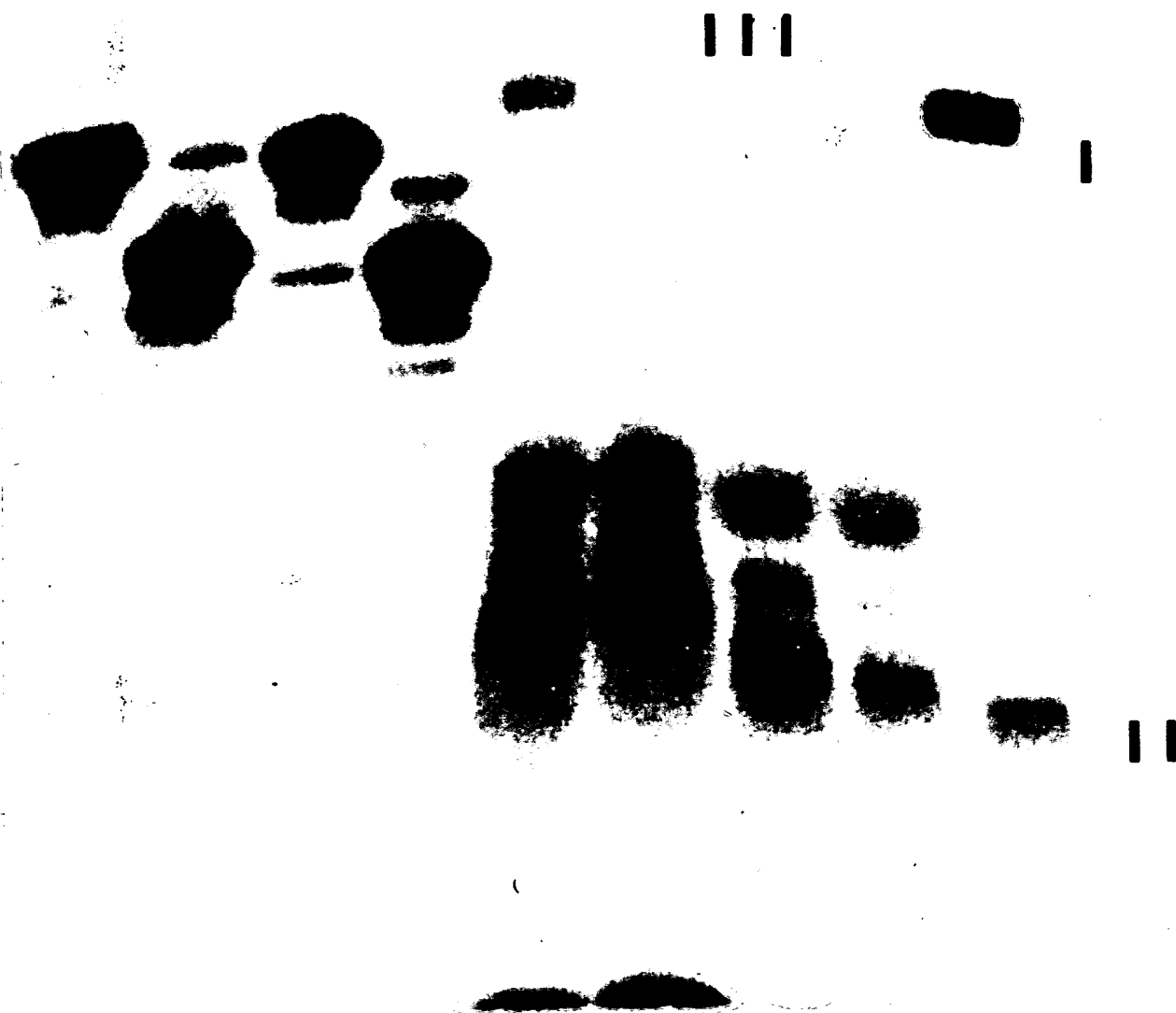
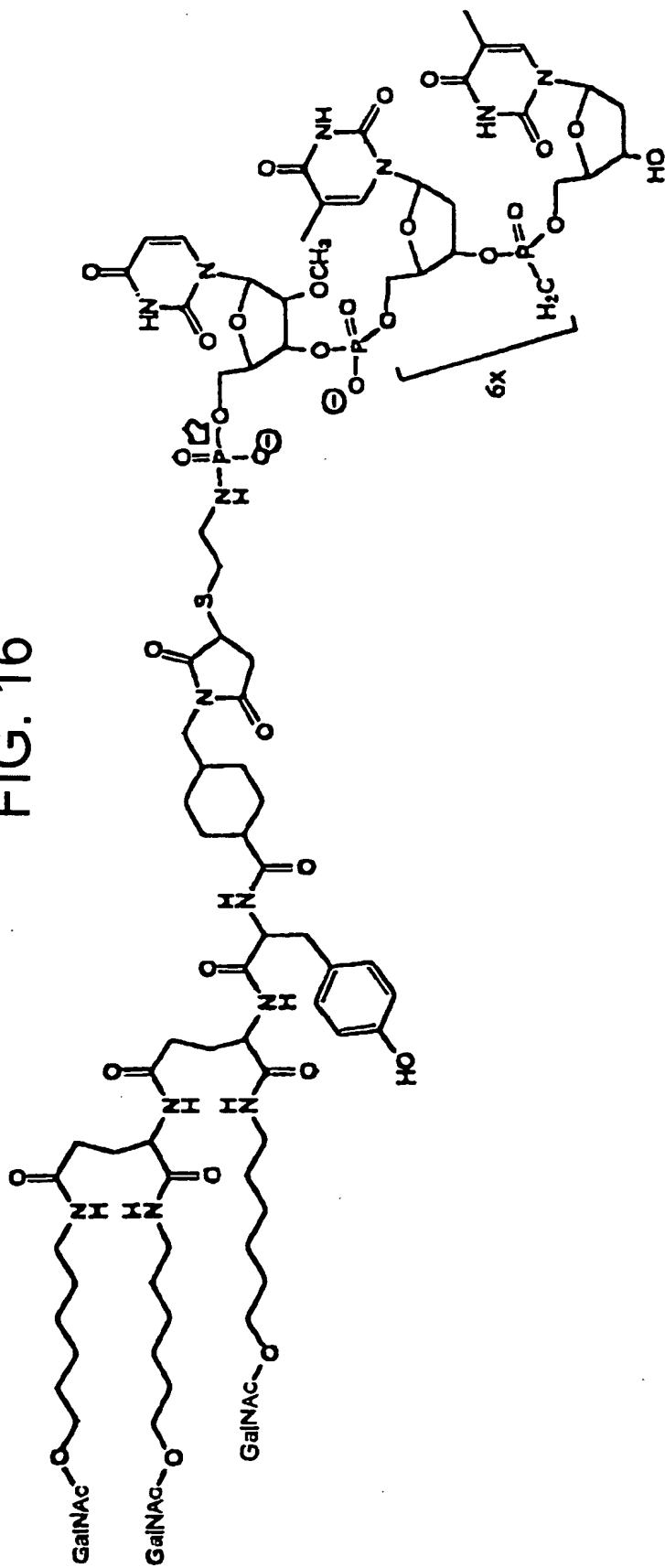


FIG. 16



10: YEE(ahGalNAc)<sub>3</sub>-SMCC-AET-pU<sup>m</sup>pL,

11: YEE(ah)<sub>3</sub>-SMCC-AET-pU<sup>m</sup>pL,

12: [Y]-SMCC-AET-pU<sup>m</sup>pL,

13: pU<sup>m</sup>pL,

14: YEE(ahGalNAc)<sub>2</sub>-SMCC-AET-pU<sup>m</sup>pL,

15: YEE(ahGalNAc)<sub>3</sub>-SMCC-AET-pU<sup>m</sup>



1 2 3 4 5 6 7 8

FIG. 17



FIG. 18

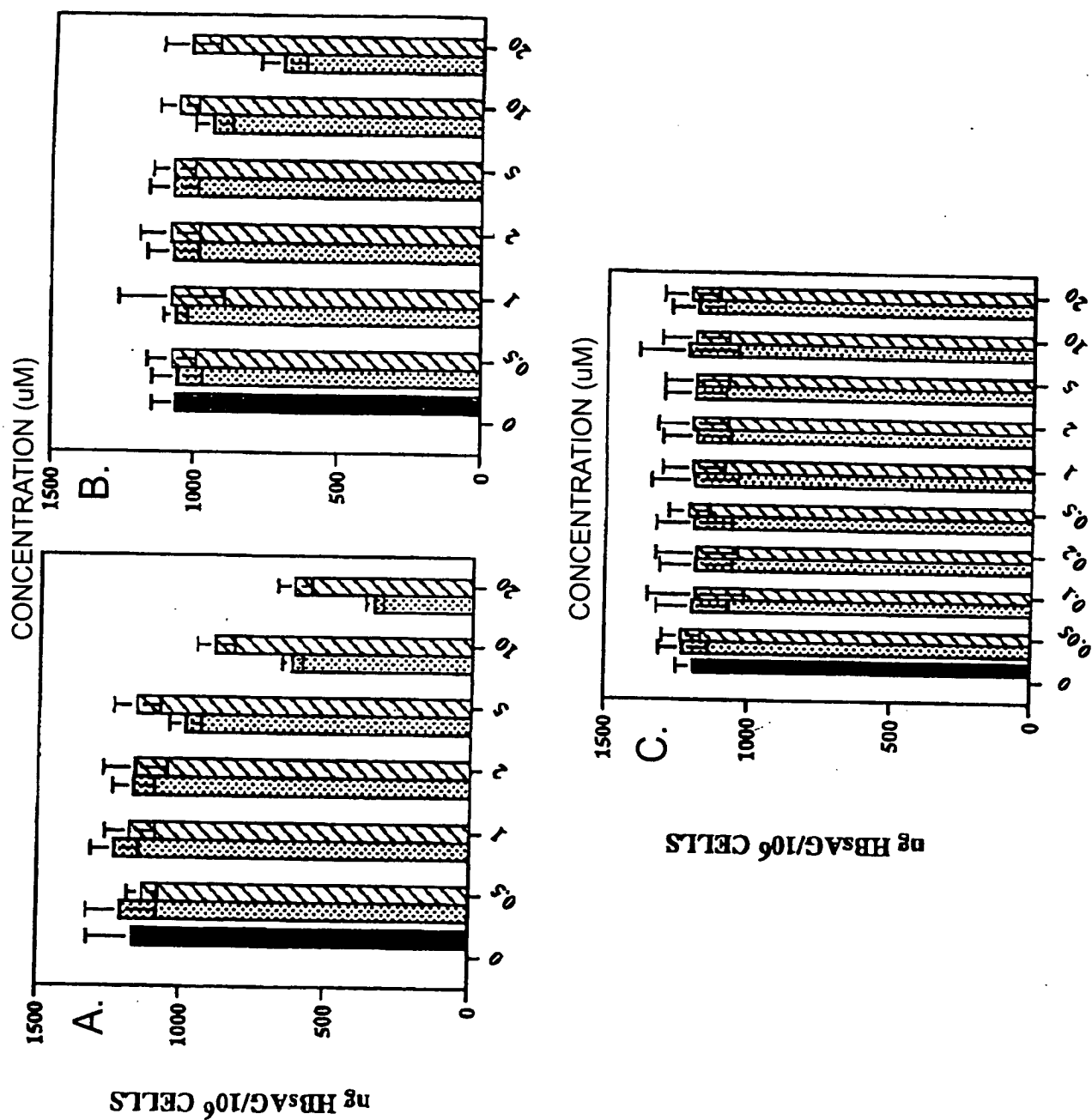


FIG. 19

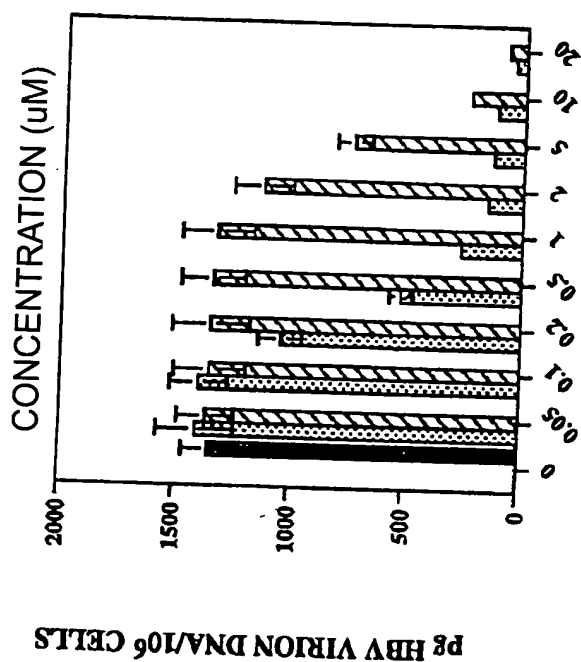
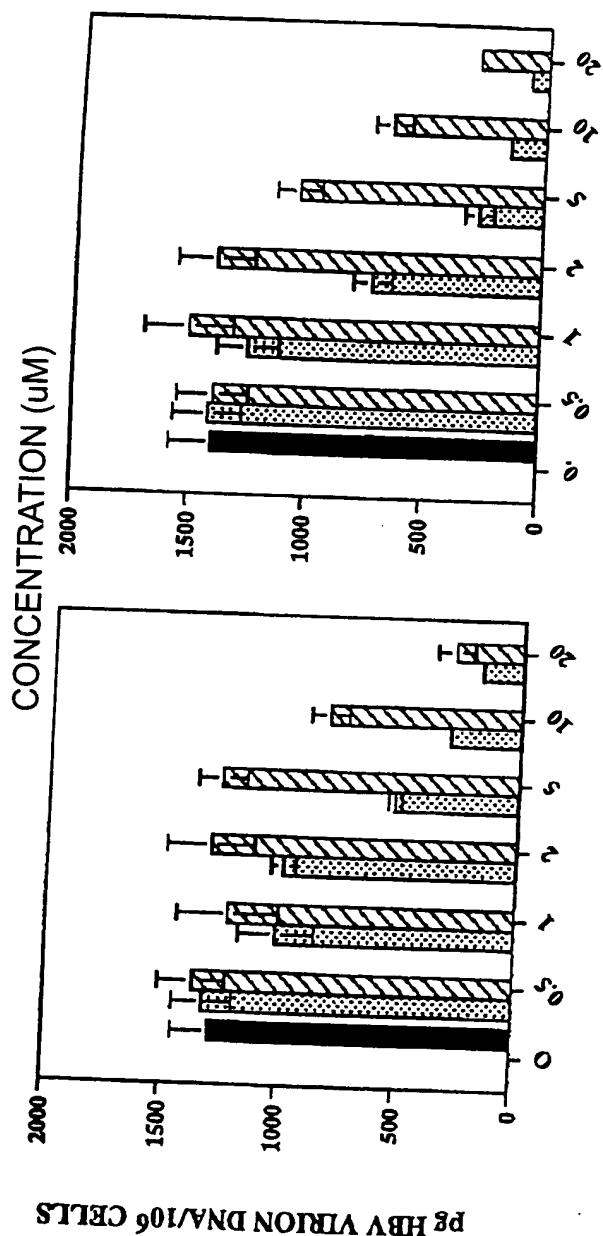


FIG. 20

